

FIG. 1

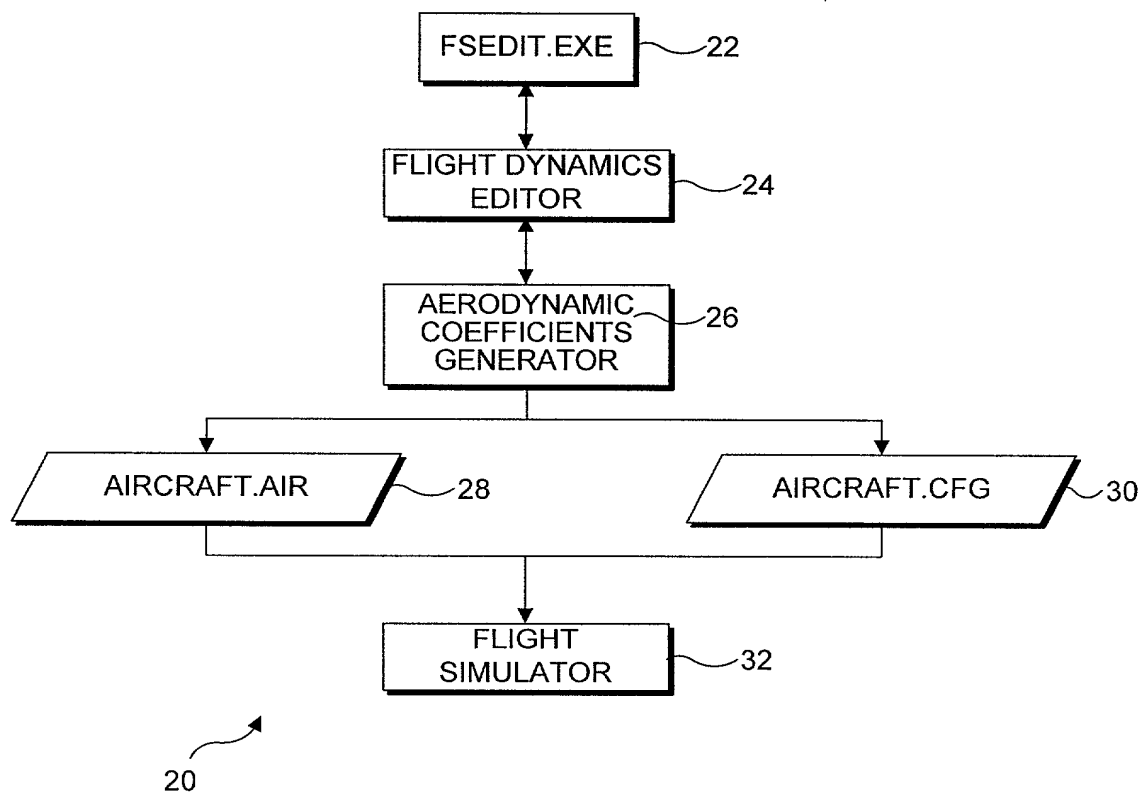


FIG. 2

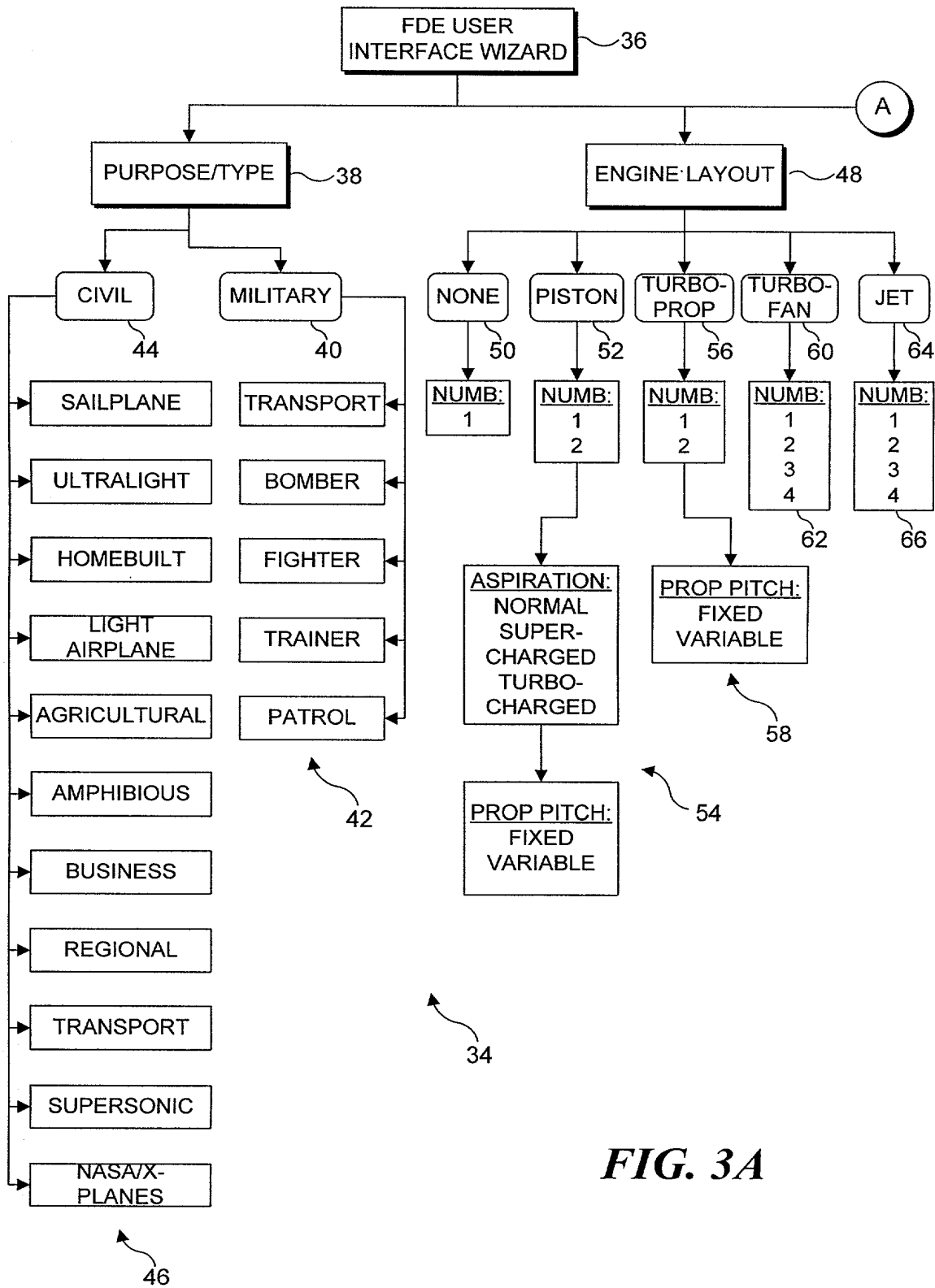
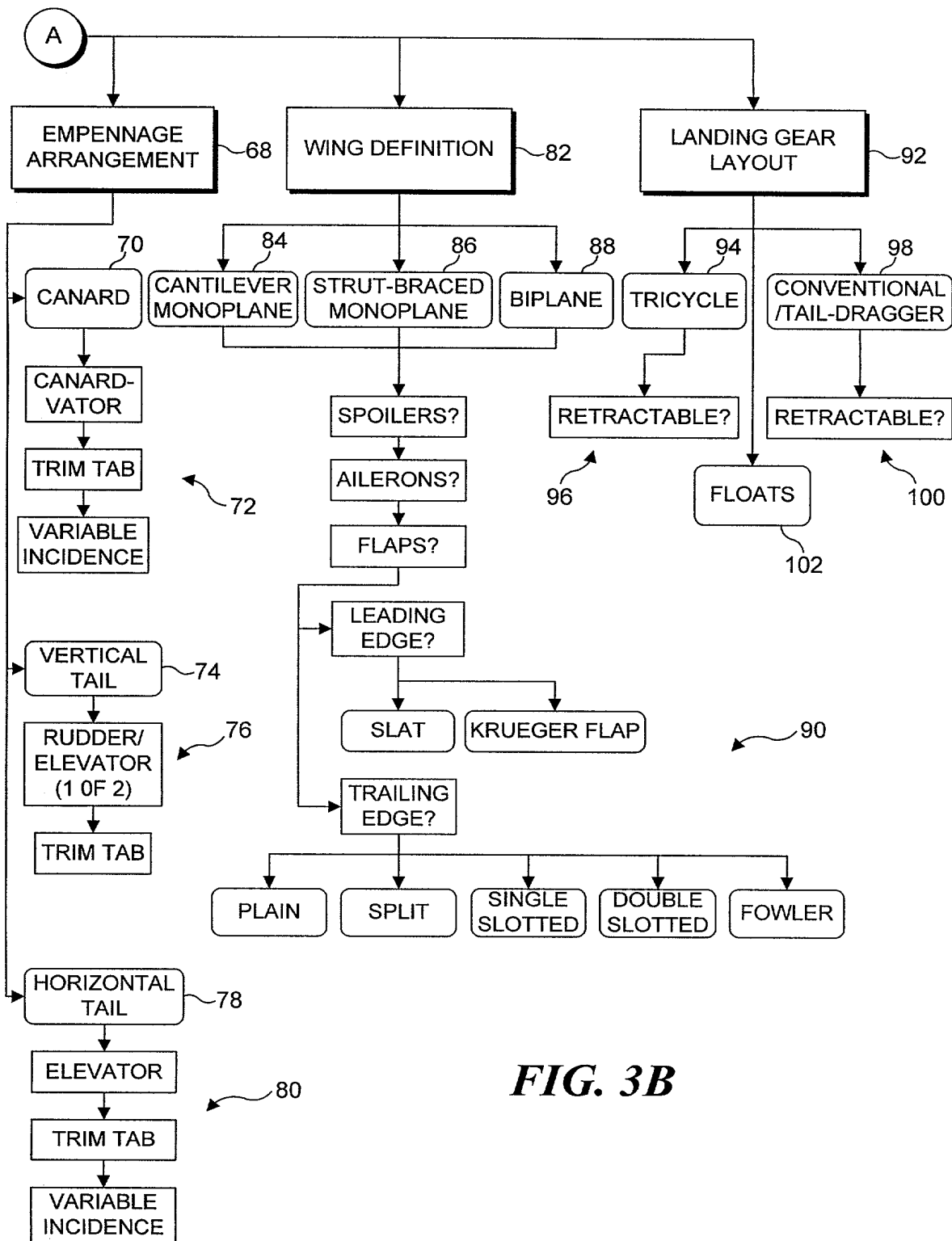


FIG. 3A



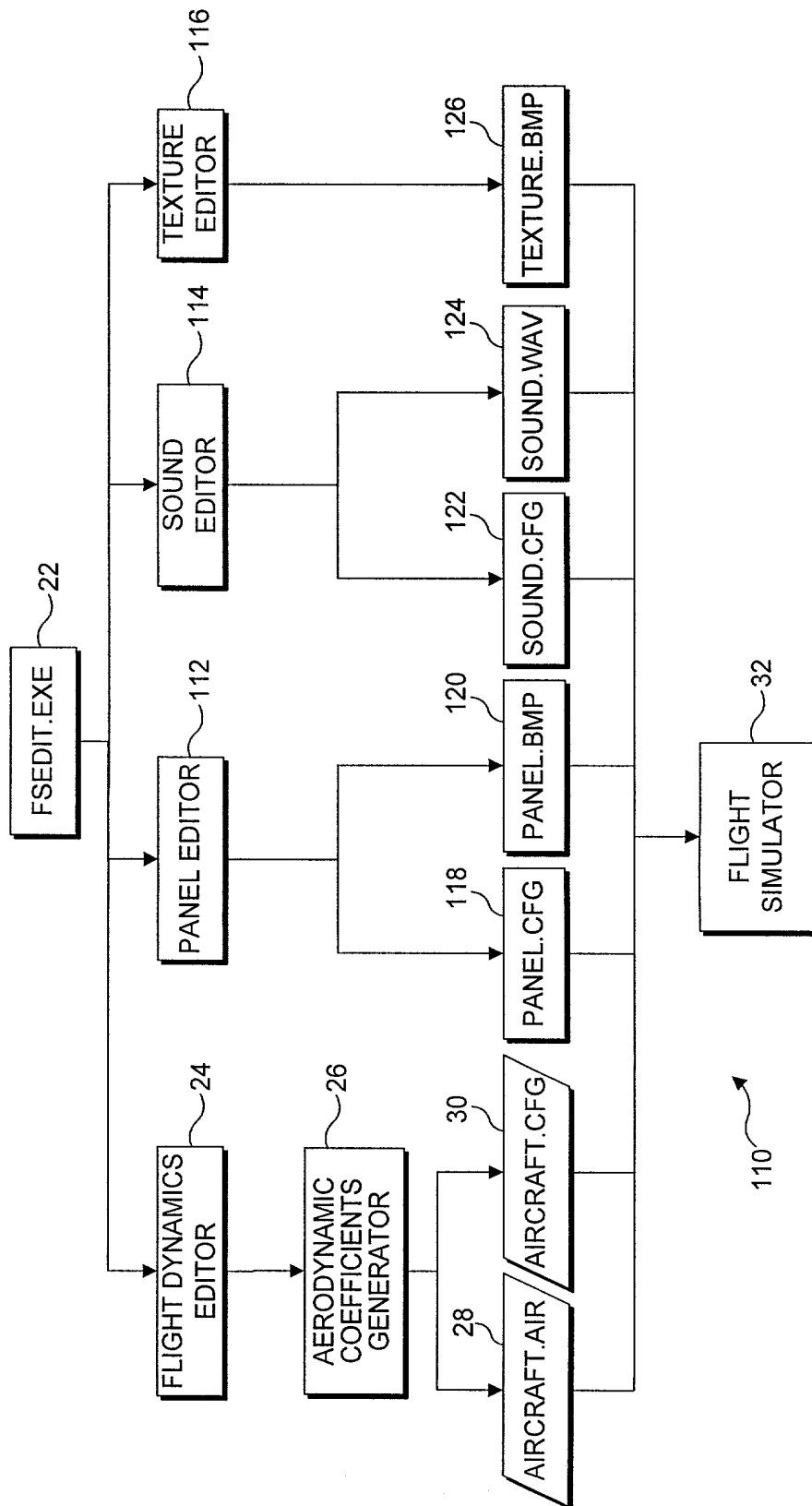


FIG. 4

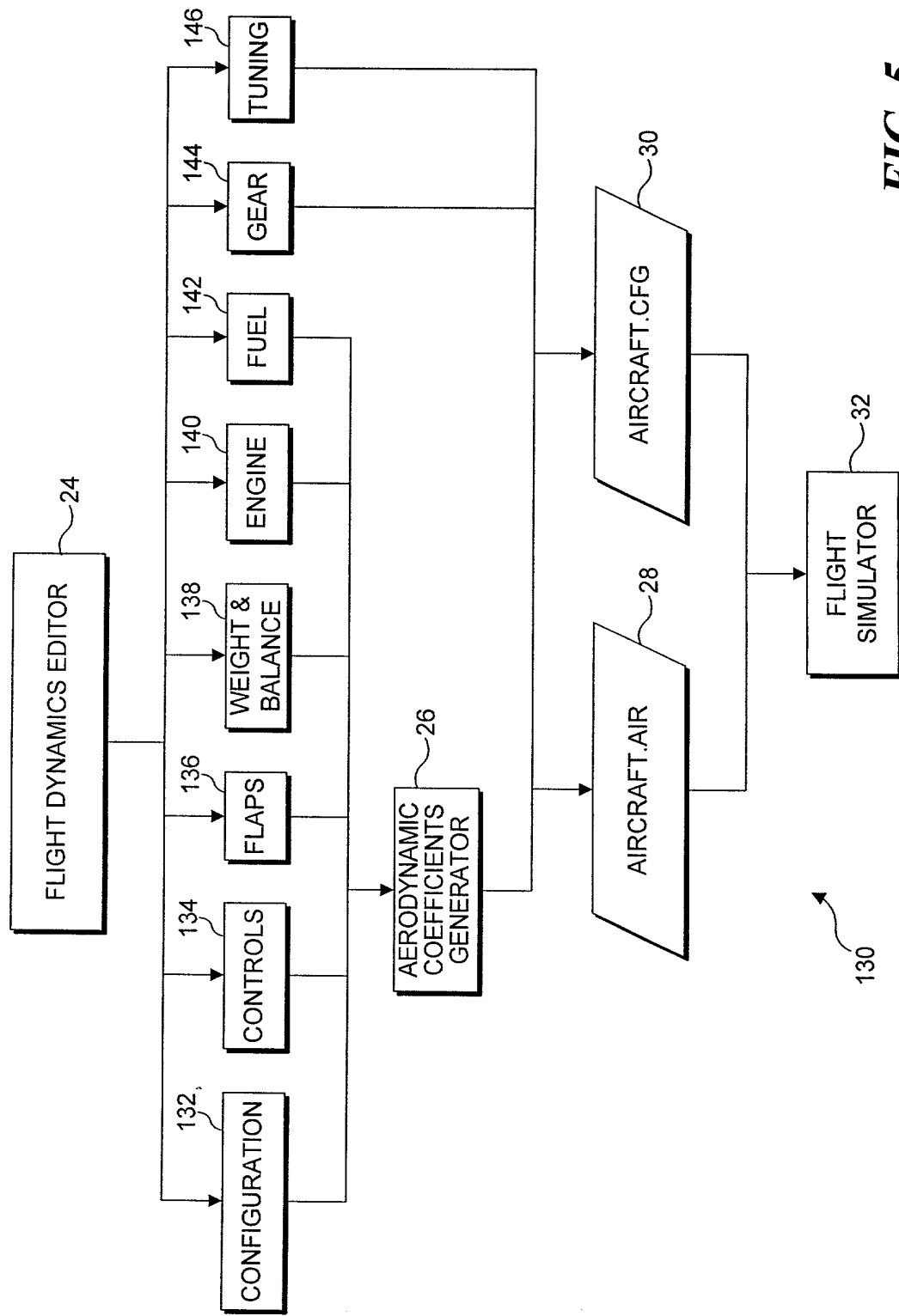


FIG. 5

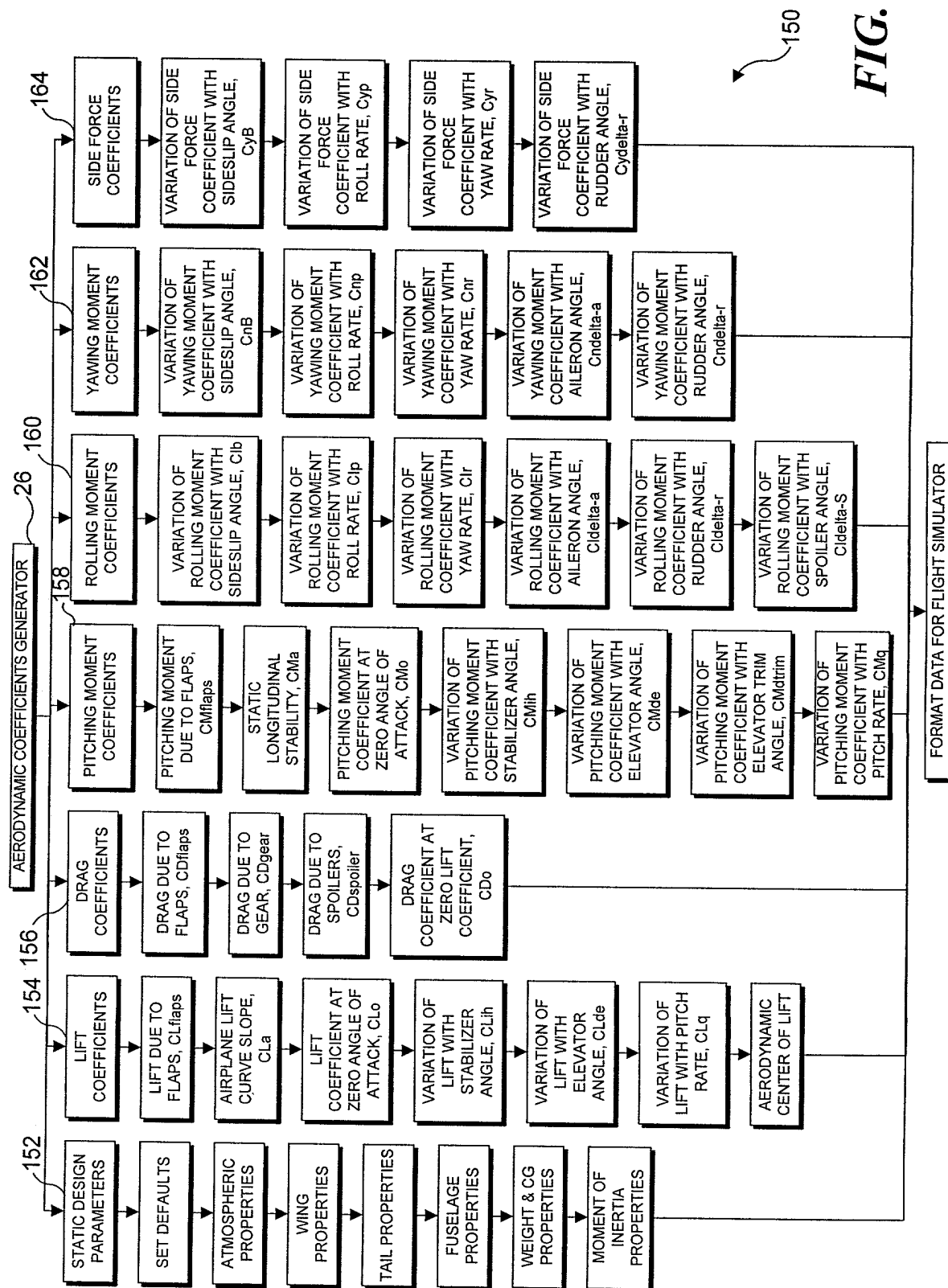


FIG. 6

FS EDIT E:\fsBrtn\Drop\FSD - Flight Simulator 2002 Aircraft Editor

File Edit View Help

302

304

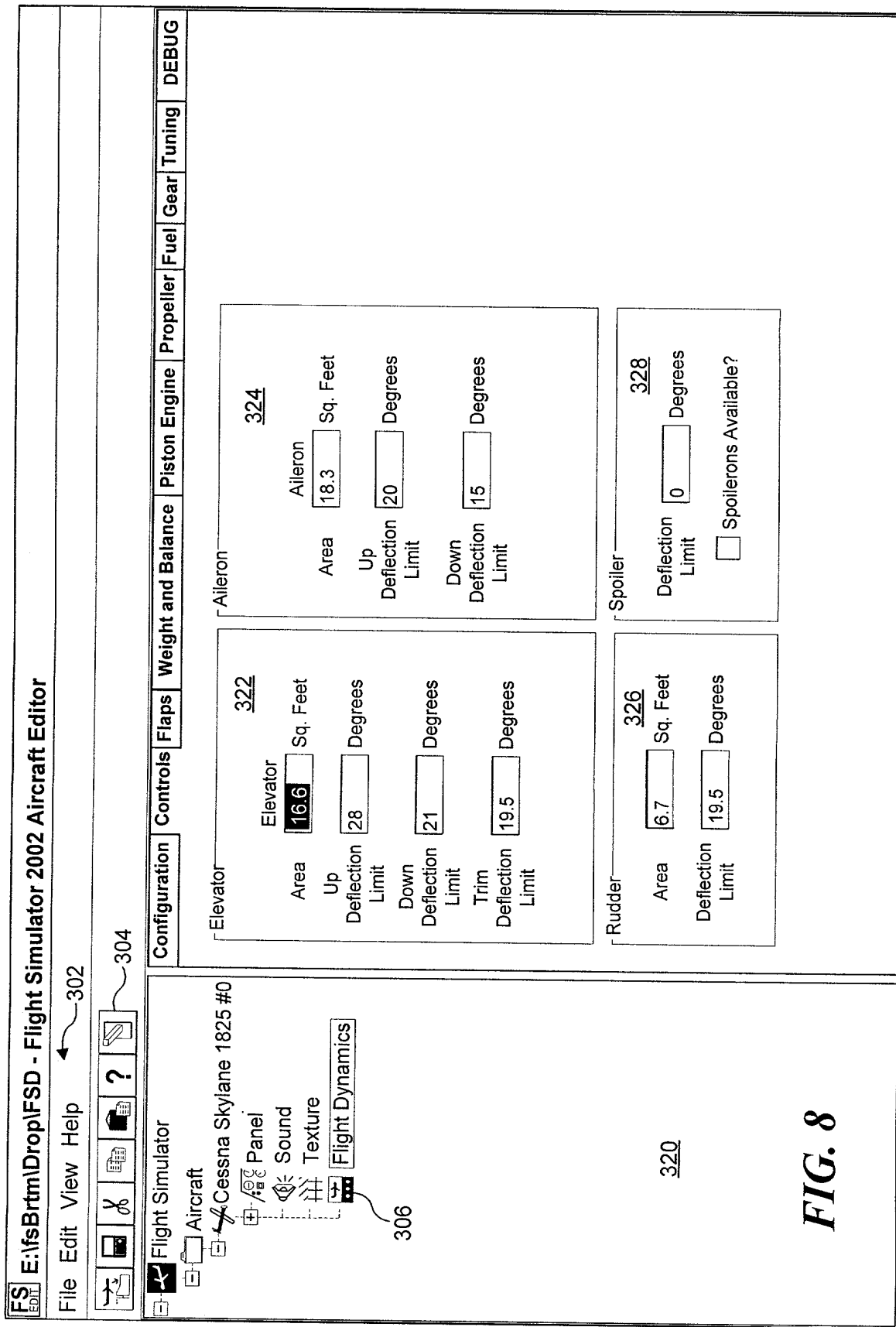
Flight Simulator

- Aircraft
 - Cessna Skylane 1825 #0
 - Panel
 - Sound
 - Texture
 - Flight Dynamics

Configuration	Controls/Flaps	Weight and Balance	Piston Engine	Propeller	Fuel	Gear	Tuning	DEBUG
<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>Wing Geometry</p> <p>Wing Area <input type="text" value="176"/> Sq. Feet</p> <p>Wing Span <input type="text" value="36"/> Feet</p> <p>Root Chord <input type="text" value="4.9"/> Feet</p> <p>LE Sweep <input type="text" value="0"/> Degrees</p> <p>Dihedral <input type="text" value="1.7"/> Degrees</p> <p>Incidence <input type="text" value="1.5"/> Degrees</p> <p>Twist <input type="text" value="-3"/> Degrees</p> <p>Oswald Efficiency Factor <input type="text" value="0.7"/></p> <p><input type="checkbox"/> Winglets?</p> <p>Wing Apex Longitudinal Position, From Reference Datum</p> <p><input type="text" value="-2.4"/> Feet, Positive Forward</p> <p>Wing Apex Vertical Position, From Reference Datum</p> <p><input type="text" value="0"/> Feet, Positive Up</p> </div> <div style="width: 48%;"> <p>Reference Datum</p> <p>Longitudinal Position from Visual Model Origin <input type="text" value="3.6"/></p> <p>Lateral Position from Visual Model Origin <input type="text" value="0"/></p> <p>Vertical Position from Visual Model Origin <input type="text" value="0"/></p> <p>Feet, Positive Forward Feet, Positive Starboard Feet, Positive Up</p> </div> </div>								
<p>Tail Geometry</p> <p>Horizontal Tail/Canard</p> <p>Area <input type="text" value="39"/> Sq. Feet Area <input type="text" value="18"/> Sq. Feet</p> <p>Span <input type="text" value="11.7"/> Feet Span <input type="text" value="4.8"/> Feet</p> <p>Sweep <input type="text" value="10"/> Degrees Sweep <input type="text" value="40"/> Degrees</p> <p>Incidence <input type="text" value="3.2"/> Degrees</p> <p>Vertical Tail</p> <p>HTail/Canard Apex Longitudinal Position, From Reference Datum</p> <p><input type="text" value="-18.3"/> Feet, Positive Forward</p> <p>VTail Apex Longitudinal Position, From Reference Datum</p> <p><input type="text" value="-16.2"/> Feet, Positive Forward</p> <p>HTail/Canard Apex Vertical Position, From Reference Datum</p> <p><input type="text" value="0"/> Feet, Positive Up</p> <p>VTail Apex Vertical Position, From Reference Datum</p> <p><input type="text" value="1.5"/> Feet, Positive Up</p>								

FIG. 7

FIG. 7



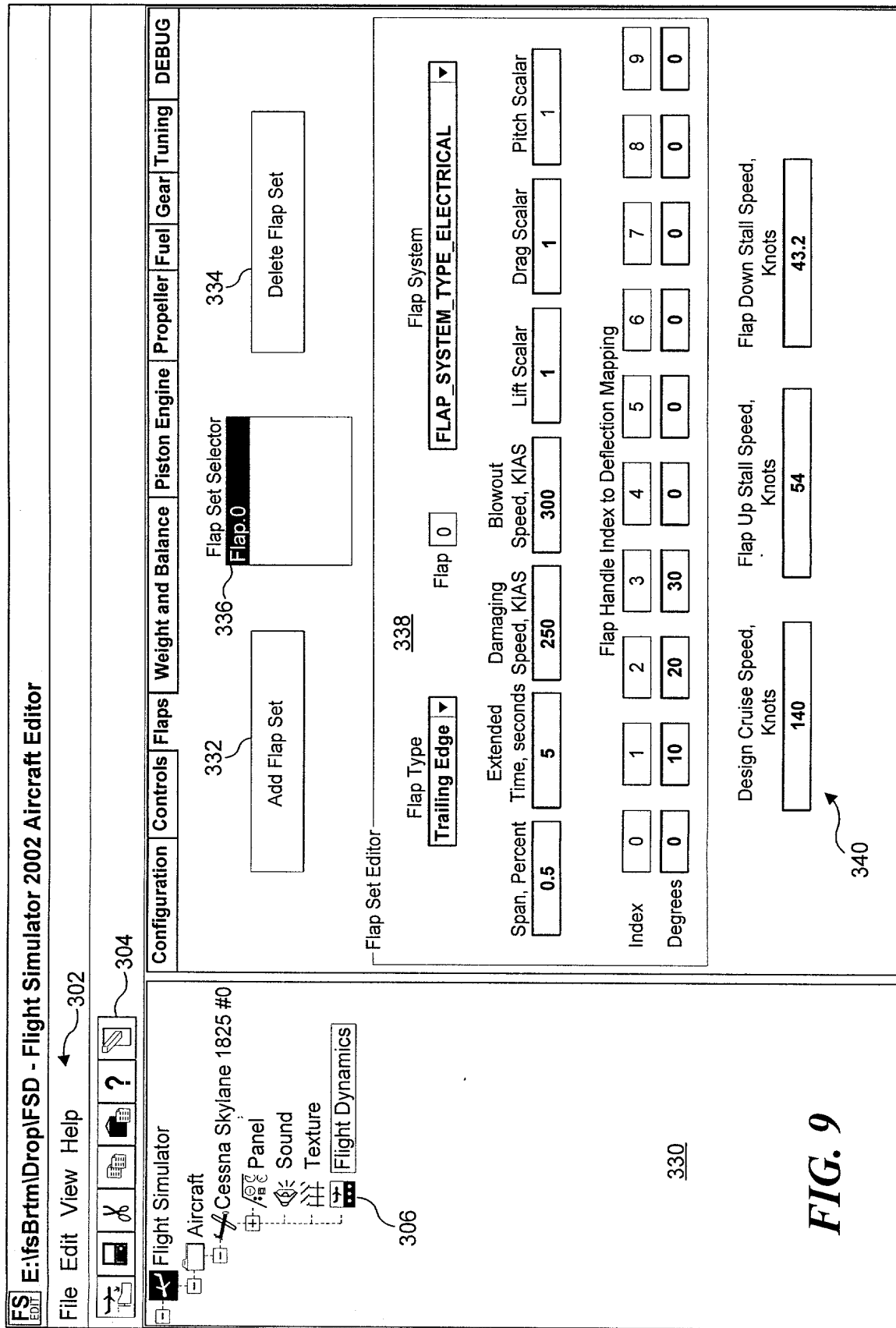


FIG. 9

The screenshot displays the FS EDITOR application window. The title bar reads "E:\fsBrtrl\Drop\FSD - Flight Simulator 2002 Aircraft Editor". The menu bar includes "File", "Edit", "View", and "Help". Below the menu bar is a toolbar with icons for file operations and simulation settings. A dropdown menu is open under the "Flight Simulator" icon, listing options: "Aircraft", "Cessna Skylane 182S #0", "Panel", "Sound", "Texture", and "Flight Dynamics".

In the background, the "Payload Weight Editor" window is visible. It contains several input fields for aircraft weight and balance data:

- Gross Weight:** Maximum Design Gross Weight is set to 3110 Pounds.
- Empty Weight:** Empty Weight is set to 1810 Pounds.
- Longitudinal Position, from Reference Datum:** Set to -3 Feet, Positive Forward.
- Lateral Position, from Reference Datum:** Set to 0 Feet, Positive Starboard.
- Vertical Position, from Reference Datum:** Set to 0 Feet, Positive Up.

A "Station Selector" table is present in the center of the window:

station_load.0	station_load.1	station_load.2	station_load.3

Buttons for "Add Station Load" and "Delete Station Load" are located below the selector. To the right, there are input fields for "Index", "Weight", "Position, Feet from Reference Datum" (Longitudinal, Lateral, Vertical).

At the bottom of the window, the "Moments of Inertia" section shows suggested values for various parameters:

Parameter	Suggested Value
Empty Weight Pitch MOI	1400
Empty Weight Roll MOI	1137
Empty Weight Yaw MOI	2360
Empty Weight Coupled MOI	0

A note at the bottom states: "*Note: The suggested values can vary significantly from those actually used."

FIG. 10

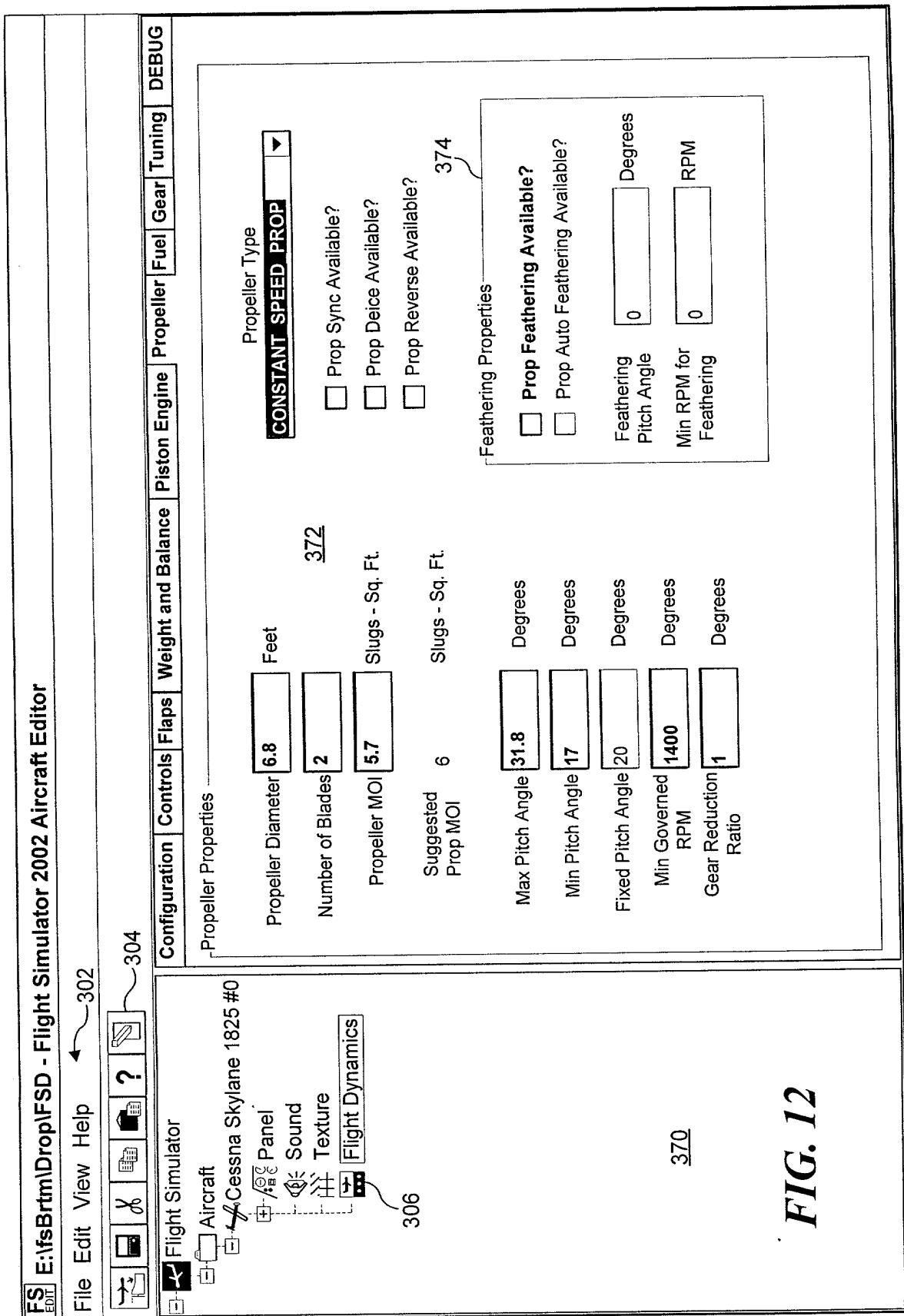


FIG. 12

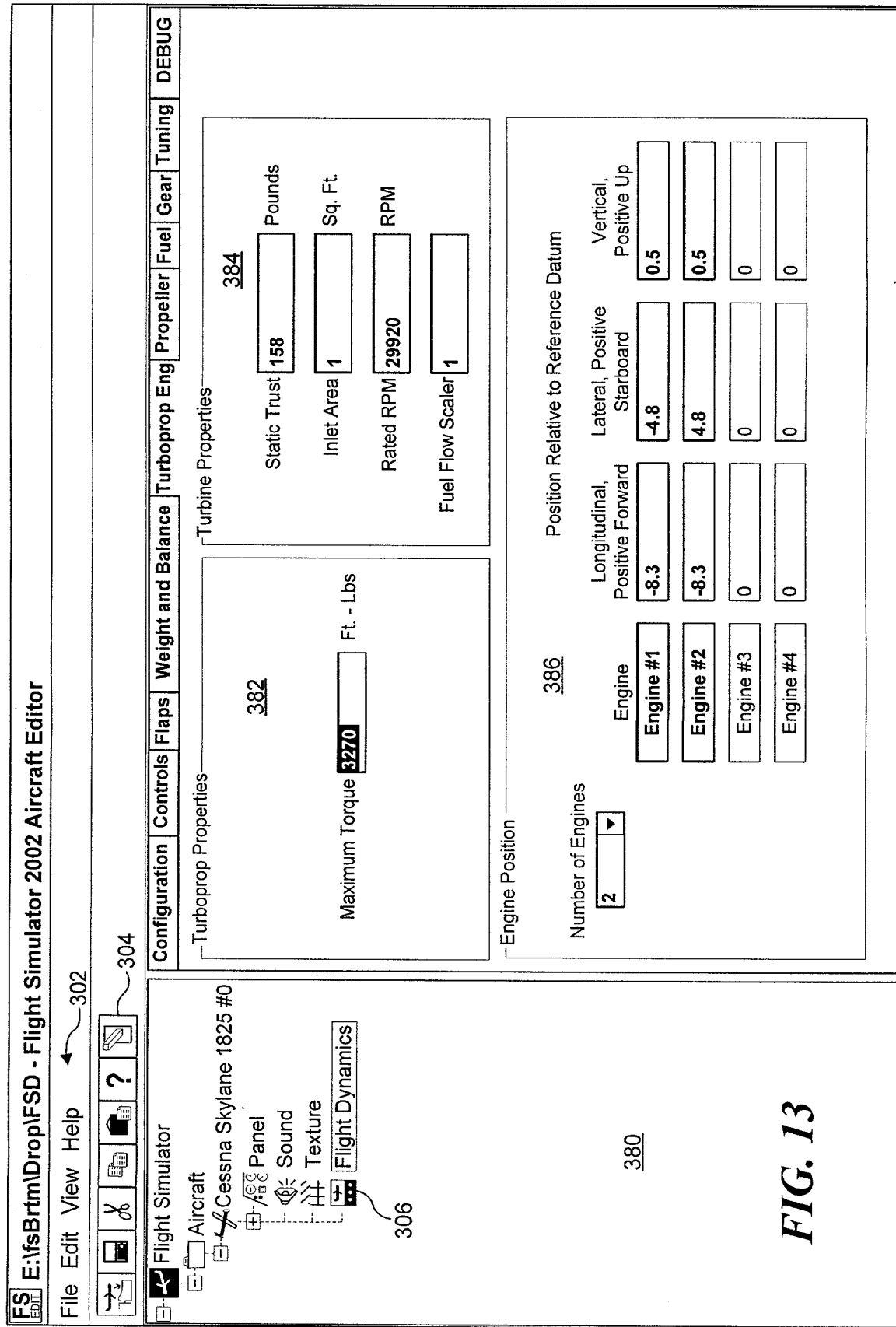


FIG. 13

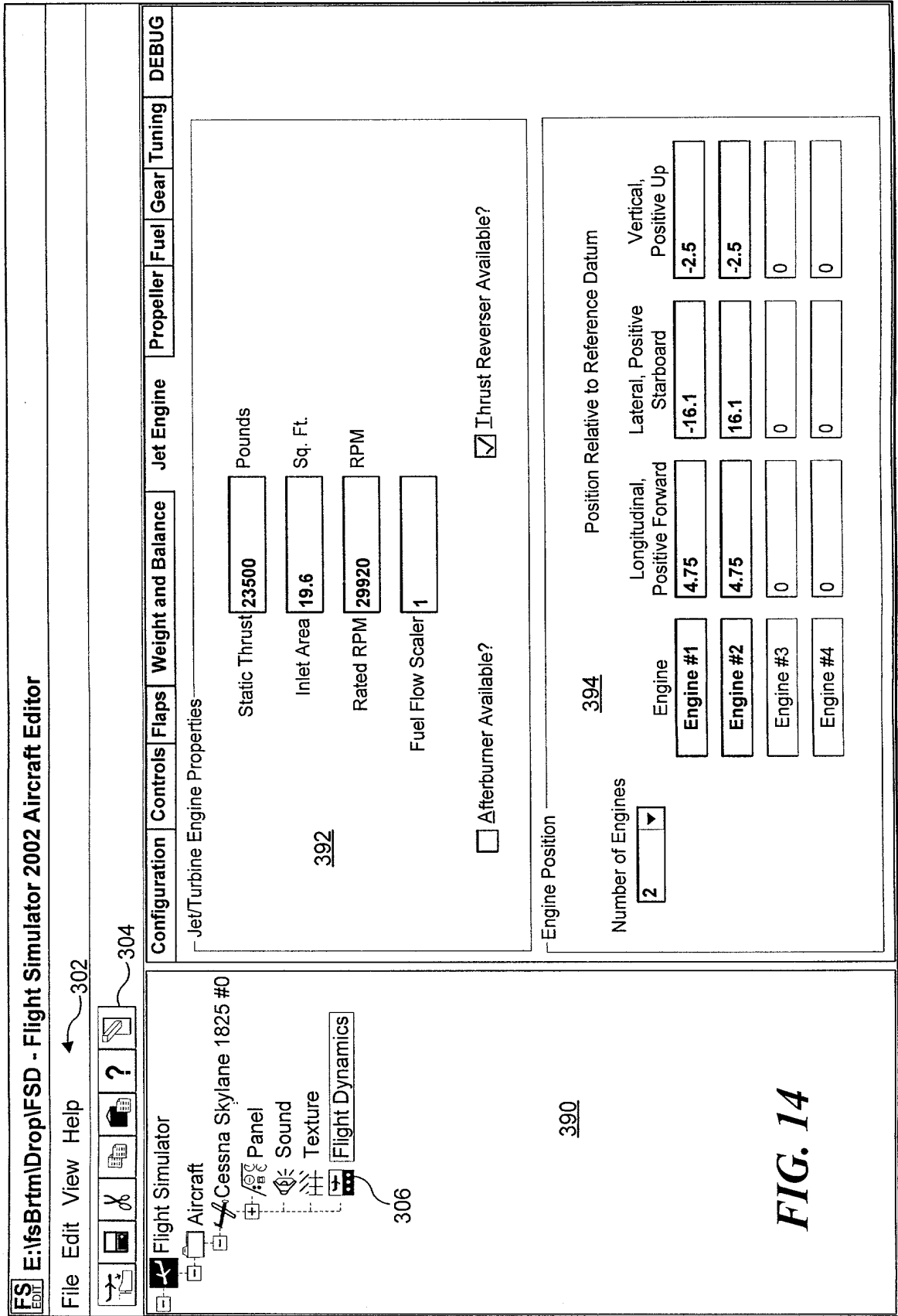
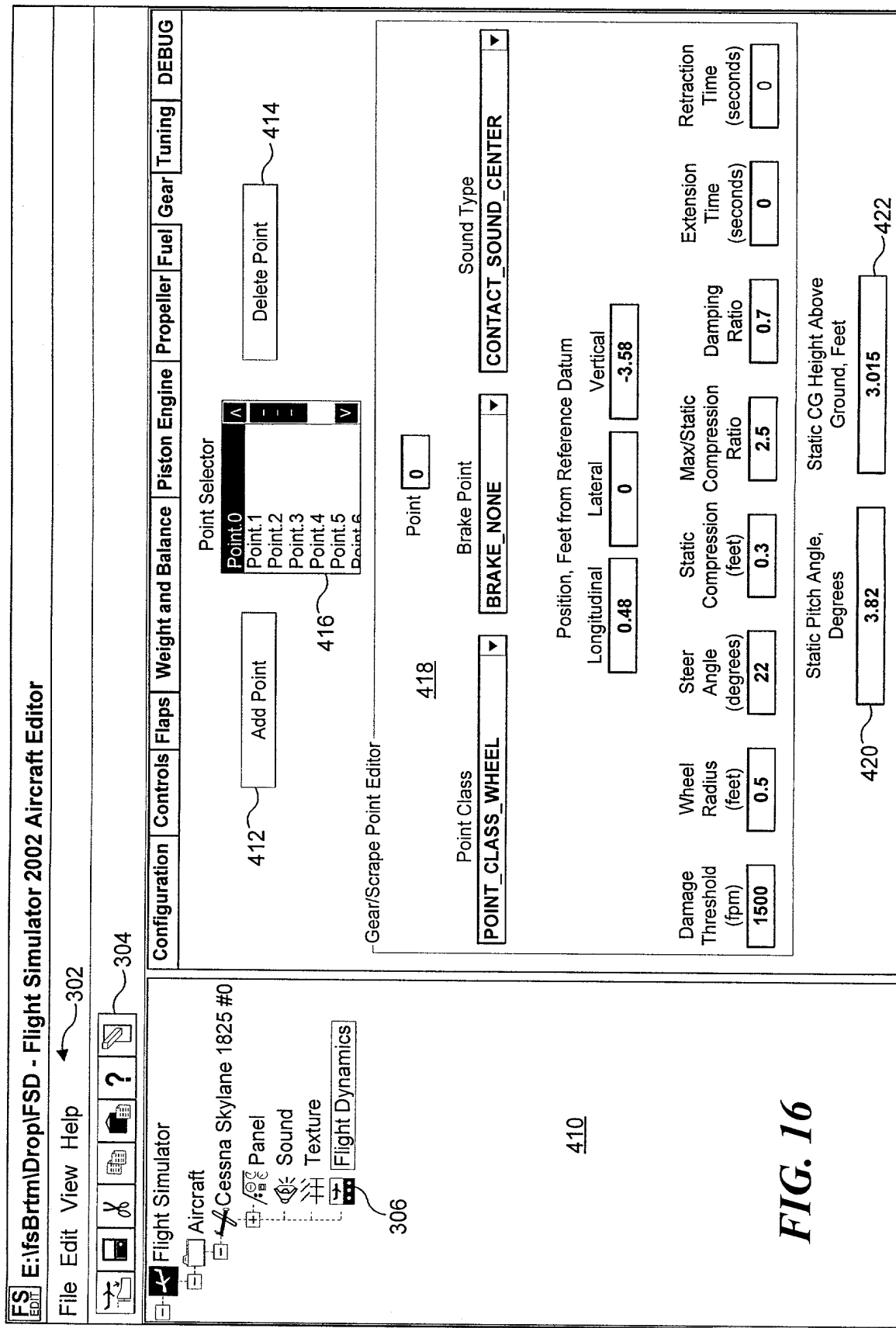


FIG. 14



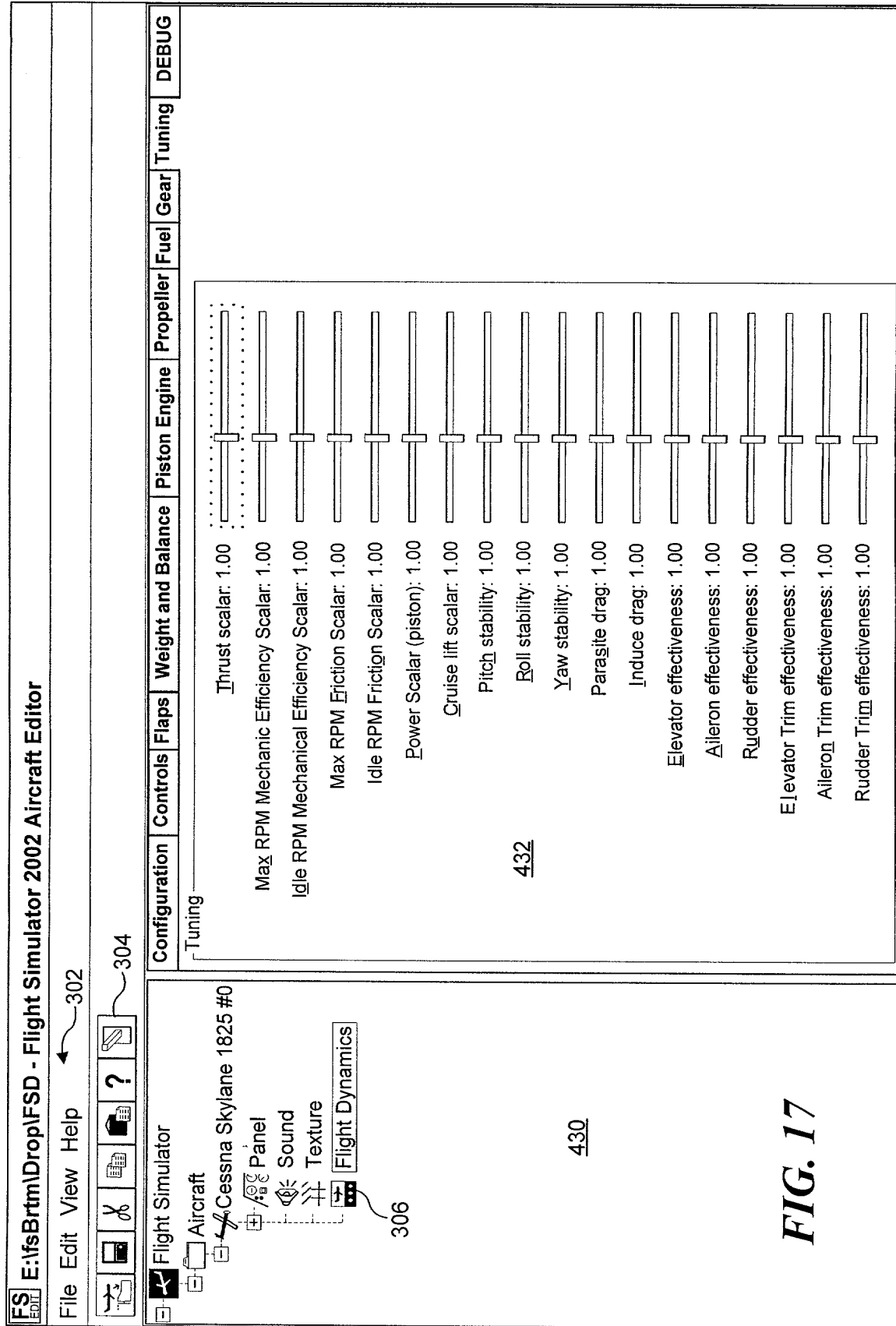


FIG. 17